

CLAIMS

We claim:

- [c1] 1. A method in a distributed document object model system for associating business logic, comprising:
 - receiving a registration request from a business logic event handler for an event of the distributed document object model;
 - registering the business logic event handler; and
 - when an event occurs, notifying the business logic event handler;
 - receiving an indication from the business logic event handler; and
 - performing a function relating to the received indication.
- [c2] 2. The method of claim 1 wherein the event handler handles an event that is generated before a requested mutation is applied to a document.
- [c3] 3. The method of claim 2 wherein the event handler is registered for a document type.
- [c4] 4. The method of claim 2 wherein the handler disallows the requested mutation.
- [c5] 5. The method of claim 2 wherein the handler allows the requested mutation.
- [c6] 6. The method of claim 2 wherein event handling is performed on a client computing device.
- [c7] 7. The method of claim 2 wherein event handling is performed on a server computing device

- [c8] 8. The method of claim 1 wherein the event handler handles an event that is generated when a requested mutation is applied to a document.
- [c9] 9. The method of claim 1 wherein the event handler handles an event that is generated after a requested mutation is applied to a document.
- [c10] 10. The method of claim 1 wherein the event handler enforces a business rule.
- [c11] 11. The method of claim 10 wherein a business rule requests a mutation to a hierarchical document.
- [c12] 12. The method of claim 11 wherein an answer message is sent to a client that requested a mutation that caused the event handler to enforce the business rule that requested the mutation.
- [c13] 13. The method of claim 12 wherein a broadcast message is sent to another connected client.
- [c14] 14. The method of claim 11 wherein the business rule requests the mutation without a corresponding request from a client.
- [c15] 15. The method of claim 14 wherein a broadcast message is sent to all connected clients.
- [c16] 16. A distributed document object model system for associating business logic, comprising:
a component that receives a registration request from a business logic event handler for an event of the distributed document object model;
a component that registers the business logic event handler;

a component that notifies the business logic event handler when an event occurs;
a component that receives an indication from the business logic event handler; and
a component that performs a function relating to the received indication.

[c17] 17. The system of claim 16 wherein the event handler handles an event that is generated before a requested mutation is applied to a document.

[c18] 18. The system of claim 17 wherein the event handler is registered for a document type.

[c19] 19. The system of claim 17 wherein the handler disallows the requested mutation.

[c20] 20. The system of claim 17 wherein the handler allows the requested mutation.

[c21] 21. The system of claim 17 wherein event handling is performed on a client computing device.

[c22] 22. The system of claim 17 wherein event handling is performed on a server computing device

[c23] 23. The system of claim 16 wherein the event handler handles an event that is generated when a requested mutation is applied to a document.

[c24] 24. The system of claim 16 wherein the event handler handles an event that is generated after a requested mutation is applied to a document.

- [c25] 25. The system of claim 16 wherein the event handler enforces a business rule.
- [c26] 26. The system of claim 25 wherein a business rule requests a mutation to a hierarchical document.
- [c27] 27. The system of claim 26 wherein an answer message is sent to a client that requested a mutation that caused the event handler to enforce the business rule that requested the mutation.
- [c28] 28. The system of claim 27 wherein a broadcast message is sent to another connected client.
- [c29] 29. The system of claim 26 wherein the business rule requests the mutation without a corresponding request from a client.
- [c30] 30. The system of claim 29 wherein a broadcast message is sent to all connected clients.